



INFORMATION DISCLOSURE STATEMENT

APPLICANT Thompson, et al.

CGNE 69-4

SERIAL NO. 07/762,762

FILING DATE: September 16, 1991

U.S. PATENT DOCUMENTS

Exam.

Initial

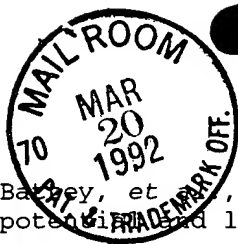
*PRM* 1 5,057,419 Martin, et al. Oct. 15, 1991 *435/134* ~~enclosed~~  
2 4,446,235 Seeburg, P.H. May 1, 1984 *435/91.51* ~~enclosed~~  
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*PRM* 4 WO 91/11906 PCT 22 Aug 1991 ~~enclosed~~  
5 WO 91/18985 PCT 12 Dec 1991 ~~enclosed~~  
6 EP 0 255 377 EP (Kridl et al) <sup>3</sup> 0~~1~~ Feb. 1988 ~~enclosed~~  
7 EP 0323 753 EP 12 Jul. 1989 ~~enclosed~~

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*PRM* 8 Graef, et al., "Inheritance of Three Stearic Acid Mutants of Soybean", Crop Science (1985) 25:1076-1079 ~~enclosed~~  
9 Bafor, et al., "Properties of the Glycerol Acylating Enzymes in Microsomal Preparations from the Developing Seeds of Safflower (*Carthamus tinctorius*) and Turnip Rape (*Brassica campestris*) and their Ability to Assemble Cocoa-Butter Type Fats", JAOCS (1990) 67(4):217-225 ~~enclosed~~  
10 Goodman, et al., "Biotechnology and Its Impact on Future Developments In Soybean Production and Use", World Soybean Research Conference III: Proceedings (Westview Press): Shibles (ed): (1985) pp. 261-271 ~~enclosed~~  
11 Mattson, et al., "Comparison of effects of dietary saturated, mono-unsaturated, and polyunsaturated fatty acids on plasma lipids and lipoproteins in man", J. of Lipid Research (1985) 26:194-201 ~~enclosed~~  
12 Knauf, V., "The application of genetic engineering to oilseed crops", Trends in Biotech. (1987) 5:40-47 ~~enclosed~~



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- PRM 13 B. A. et al., "Genetic engineering for plant oils: potential and limitations", *Trends in Biotech.* (1989) 7:122-126 ~~enclosed~~
- 14 McKeon, et al., "Stearoyl-Acyl Carrier Protein Desaturase from Safflower Seeds", (1981) *Methods in Enzymology* 71:275-281 ~~enclosed~~
- 15 Jaworski, et al., "Fat Metabolism in Higher Plants, Properties of a Soluble Stearyl-Acyl Carrier Protein Desaturase from Maturing *Carthamus tinctorius*", *Archives of Biochemistry and Biophysics* (1974) 162:158-165 ~~enclosed~~
- 16 McKeon et al. "Purification and Characterization of the Stearoyl-acyl Carrier Protein Desaturase and the Acyl-acyl Carrier Protein Thioesterase from Maturing Seeds of Safflower", *J. of Biological Chem.* (1982) 257:12141-12147 ~~enclosed~~
- 17 Downey, et al., "Genetic Control of Fatty Acid Composition In Oilseed Crops", *Proceedings of the Flax Institute USA*: 41(3):1-3 ~~enclosed~~
- 18 Wilcox, et al., "Genetic Alteration of Soybean Oil Composition by a Chemical Mutagen," *JAOCs* (1984) 61:97-100 ~~enclosed~~
- 19 Wolf, et al., "Effect of Temperature on Soybean Seed Constituents: Oil, Protein, Moisture, Fatty Acids, Amino Acids and Sugars", *JAOCs* (1982) 59:230-232 ~~enclosed~~
- 20 Inkpen, et al., "Desaturation of Palmitate and Stearate by Cell-Free Fractions From Soybean Cotyledons", *LIPIDS* (1969) 4(6): 539-543 ~~enclosed~~
- 21 Nagai, et al., "Enzymatic Desaturation of Stearyl Acyl Carrier Protein", *J. of Biological Chemistry* (1966) 241:1925-1927 ~~enclosed~~
- 22 Moore, et al., "The Inheritance of High Oleic Acid in Peanut", *Journal of Heredity* (1989) 80(3):252-253 ~~enclosed~~
- 23 Bodman, et al., "Processing of Edible Soybean Oil", *Soybeans and Soybean Products*, Interscience Publishers, Inc., NY (1951) pp. 649-725 ~~enclosed~~
- 24 Carver, et al., "Developmental Changes in Acyl-Compositions of Soybean Seed Selected for High Oleic Acid Concentration", *Crop Science* (1984) 24:1016-1019 ~~enclosed~~
- 25 Thompson, et al., "Primary Structures of the Precursor and Mature Forms of Stearoylacyl Carrier Protein Desaturase From Safflower Embryos and Requirement of Ferredoxin for Enzyme Activity", *Proc. Natl. Acad. Sci. USA* (1991) 99:2579-2582 ~~enclosed~~
- 26 Knauf, et al., "Reprogramming Levels of Fatty Acid Synthesis Enzymes in Developing Embryos of Rapeseed", *J. of Cellular Biochem.*, UCLA Symposia, Suppl. 14E (1990) Abstract R018 ~~enclosed~~



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OTHER INFORMATION

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~~enclosed~~

RELATED APPLICATIONS

~~USSN 07/494,106 filed March 16, 1990 and references cited therein~~

~~USSN 07/567,373 filed August 13, 1990 and references cited therein~~

~~USSN 07/615,784 filed November 14, 1990 and references cited therein~~

~~PCT/US91/01746 filed March 14, 1991 and references cited therein~~

EXAMINER

*P. Moody*

DATE CONSIDERED

*14 Dec 92*

EXAMINER: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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Reference Provided

FOREIGN PATENTS & APPLICATIONS

Patent No.	Inventor	Date	Status	Reference
EP 0 255 373	Kridl, et al.	3 Feb 1988	<u>Duplicate</u>	*07/494,106
WO 90/12084	Jorgensen, et al.	18 Oct 1990	—	*07/494,106
NL 8800794	Wessanen	1 Nov 1988	—	*07/494,106
WO 91/18985	Hitz, et al.	12 Dec 1991	<u>Duplicate</u>	*07/494,106

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Publication	Reference
McKeon, et al., "Purification and Characterization of the Stearoyl-acyl Carrier Protein Desaturase and the Acyl-acyl Carrier Protein Thioesterase From Maturing Seeds of Safflower," J. Bio. Chem. (1982) 257(20):12141-12147	<u>Duplicate</u> *07/494,106
Bafor, et al., "Properties of the Glycerol Acylating Enzymes in Microsomal Preparations from the Developing Seeds of Safflower (Carthamus tinctorius) and Turnip Rape (Brassica campestris) and their Ability to Assemble Cocoa Butter Type Fats," JAOCS (1990) 67(4):217-225	<u>Duplicate</u> *07/494,106
Kater, et al., "Purification and Cloning of Brassica napus Stearoyl-ACP Desaturase," J. Cell. Biochem. Suppl. (1991) 15A:133	*07/494,106
Knauf, et al., "Reprogramming Levels of Fatty Acid Synthesis Enzymes in Developing Embryos of Rapeseed," J. Cell. Biochem. Suppl. (1990) 14E:266	<u>Duplicate</u> *07/494,106
Chesebrough, Thomas M., "Changes in the Enzymes for Fatty Acid Synthesis and Desaturation during Acclimation of Developing Soybean Seeds to Altered Growth Temperature," Plant Physiol. (1989) 90:760-764	*07/494,106
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RELATED APPLICATIONS

~~USSN 07/494,106 filed March 16, 1990 and all references cited therein~~

~~USSN 07/615,784 filed November 14, 1990 and all references cited therein~~

EXAMINER

*P. Moody*

DATE CONSIDERED

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EXAMINER: Applicant requests that a copy of this form be included with the next communication to the Applicant.

\* Note: Filed in USSN 07/494,106